

Geoffrey W Abbott

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129 papers	5,680 citations	34 h-index	73 g-index
144 ext. papers	6,348 ext. citations	6.1 avg, IF	6.01 L-index

#	Paper	IF	Citations
129	Protective effect of remote liver ischemic postconditioning on pulmonary ischemia and reperfusion injury in diabetic and non-diabetic rats. <i>PLoS ONE</i> , 2022 , 17, e0268571	3.7	
128	Severe Patients With ARDS With COVID-19 Treated With Extracorporeal Membrane Oxygenation in China: A Retrospective Study. <i>Frontiers in Medicine</i> , 2021 , 8, 699227	4.9	0
127	KCNQ and KCNE Isoform-Dependent Pharmacology Rationalizes Native American Dual Use of Specific Plants as Both Analgesics and Gastrointestinal Therapeutics. <i>Frontiers in Physiology</i> , 2021 , 12, 777057	4.6	1
126	Activation of SGK1.1 Upregulates the M-current in the Presence of Epilepsy Mutations.. <i>Frontiers in Molecular Neuroscience</i> , 2021 , 14, 798261	6.1	
125	Empagliflozin protects the heart against ischemia/reperfusion-induced sudden cardiac death. <i>Cardiovascular Diabetology</i> , 2021 , 20, 199	8.7	5
124	KCNQ5 Potassium Channel Activation Underlies Vasodilation by Tea. <i>Cellular Physiology and Biochemistry</i> , 2021 , 55, 46-64	3.9	1
123	The envelope protein of SARS-CoV-2 increases intra-Golgi pH and forms a cation channel that is regulated by pH. <i>Journal of Physiology</i> , 2021 , 599, 2851-2868	3.9	16
122	Fluorescence Fluctuation Spectroscopy enables quantification of potassium channel subunit dynamics and stoichiometry. <i>Scientific Reports</i> , 2021 , 11, 10719	4.9	3
121	Intergenerational trauma transmission is associated with brain metabotranscriptome remodeling and mitochondrial dysfunction. <i>Communications Biology</i> , 2021 , 4, 783	6.7	2
120	The Amyloid Precursor Protein C99 Fragment Modulates Voltage-Gated Potassium Channels. <i>Cellular Physiology and Biochemistry</i> , 2021 , 55, 157-170	3.9	1
119	Control of Biophysical and Pharmacological Properties of Potassium Channels by Ancillary Subunits. <i>Handbook of Experimental Pharmacology</i> , 2021 , 267, 445-480	3.2	0
118	Dynein regulates Kv7.4 channel trafficking from the cell membrane. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	4
117	Constitutively Activating GNAS Somatic Mutation in Right Ventricular Outflow Tract Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e010082	6.4	0
116	The focal adhesion protein Testin modulates KCNE2 potassium channel β subunit activity. <i>Channels</i> , 2021 , 15, 229-238	3	1
115	Acetaminophen (Paracetamol) Metabolites Induce Vasodilation and Hypotension by Activating Kv7 Potassium Channels Directly and Indirectly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 1207-1219	9.4	7
114	KCNQs: Ligand- and Voltage-Gated Potassium Channels. <i>Frontiers in Physiology</i> , 2020 , 11, 583	4.6	18
113	The ubiquitous flavonoid quercetin is an atypical KCNQ potassium channel activator. <i>Communications Biology</i> , 2020 , 3, 356	6.7	9

112	Potassium channels act as chemosensors for solute transporters. <i>Communications Biology</i> , 2020 , 3, 90	6.7	8
111	M-Channel Activation Contributes to the Anticonvulsant Action of the Ketone Body -Hydroxybutyrate. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020 , 372, 148-156	4.7	8
110	Isoform-Selective KCNA1 Potassium Channel Openers Built from Glycine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020 , 373, 391-401	4.7	8
109	KCNE Regulation of KCNQ Channels. <i>Physiology in Health and Disease</i> , 2020 , 1011-1049	0.2	
108	Allosteric regulation of mammalian Na/I symporter activity by perchlorate. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 533-539	17.6	17
107	Metabolomic and transcriptomic signatures of prenatal excessive methionine support nature rather than nurture in schizophrenia pathogenesis. <i>Communications Biology</i> , 2020 , 3, 409	6.7	8
106	Hypochlorhydria reduces mortality in heart failure caused by Kcne2 gene deletion. <i>FASEB Journal</i> , 2020 , 34, 10699-10719	0.9	0
105	KCNQ5 activation is a unifying molecular mechanism shared by genetically and culturally diverse botanical hypotensive folk medicines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21236-21245	11.5	16
104	The KCNE2 potassium channel β subunit is required for normal lung function and resilience to ischemia and reperfusion injury. <i>FASEB Journal</i> , 2019 , 33, 9762-9774	0.9	2
103	Teamwork: Ion channels and transporters join forces in the brain. <i>Neuropharmacology</i> , 2019 , 161, 107601-107615	15.5	5
102	deletion sex dependently inhibits the RISK pathway response and exacerbates hepatic ischemia-reperfusion injury in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 316, R552-R562	3.2	1
101	AKT and ERK1/2 activation via remote ischemic preconditioning prevents Kcne2-dependent sudden cardiac death. <i>Physiological Reports</i> , 2019 , 7, e13957	2.6	5
100	Cilantro leaf harbors a potent potassium channel-activating anticonvulsant. <i>FASEB Journal</i> , 2019 , 33, 11349-11363	0.9	11
99	In silico re-engineering of a neurotransmitter to activate KCNQ potassium channels in an isoform-specific manner. <i>Communications Biology</i> , 2019 , 2, 401	6.7	5
98	Association of Myoinositol Transporters with Schizophrenia and Bipolar Disorder: Evidence from Human and Animal Studies. <i>Molecular Neuropsychiatry</i> , 2019 , 5, 200-211	4.9	5
97	Antiarrhythmic Drugs		1
96	KCNQ1 rescues TMC1 plasma membrane expression but not mechanosensitive channel activity. <i>Journal of Cellular Physiology</i> , 2019 , 234, 13361-13369	7	3
95	Deletion in mice of X-linked, Brugada syndrome- and atrial fibrillation-associated Kcne5 augments ventricular K currents and predisposes to ventricular arrhythmia. <i>FASEB Journal</i> , 2019 , 33, 2537-2552	0.9	14

94	Gabapentin Is a Potent Activator of KCNQ3 and KCNQ5 Potassium Channels. <i>Molecular Pharmacology</i> , 2018 , 94, 1155-1163	4.3	34
93	Direct neurotransmitter activation of voltage-gated potassium channels. <i>Nature Communications</i> , 2018 , 9, 1847	17.4	40
92	Remote ischemic preconditioning STAT3-dependently ameliorates pulmonary ischemia/reperfusion injury. <i>PLoS ONE</i> , 2018 , 13, e0196186	3.7	10
91	Kcne4 deletion sex-specifically predisposes to cardiac arrhythmia via testosterone-dependent impairment of RISK/SAFE pathway induction in aged mice. <i>Scientific Reports</i> , 2018 , 8, 8258	4.9	3
90	Prenatal one-carbon metabolism dysregulation programs schizophrenia-like deficits. <i>Molecular Psychiatry</i> , 2018 , 23, 282-294	15.1	18
89	Deconstruction of an African folk medicine uncovers a novel molecular strategy for therapeutic potassium channel activation. <i>Science Advances</i> , 2018 , 4, eaav0824	14.3	15
88	Ancient and modern anticonvulsants act synergistically in a KCNQ potassium channel binding pocket. <i>Nature Communications</i> , 2018 , 9, 3845	17.4	21
87	KCNQ-SMIT complex formation facilitates ion channel-solute transporter cross talk. <i>FASEB Journal</i> , 2017 , 31, 2828-2838	0.9	18
86	Involvement of glycogen synthase kinase-3 β in liver ischemic conditioning induced cardioprotection against myocardial ischemia and reperfusion injury in rats. <i>Journal of Applied Physiology</i> , 2017 , 122, 1095-1105	3.7	15
85	Targeted deletion of <i>Slc12a7</i> impairs skeletal muscle function in mice. <i>FASEB Journal</i> , 2017 , 31, 2937-2947	0.9	1
84	<i>Slc12a7</i> deletion impairs insulin secretion and causes type 2 diabetes mellitus. <i>FASEB Journal</i> , 2017 , 31, 2674-2685	5.9	21
83	Transporter complexes in cell signaling. <i>FEBS Letters</i> , 2017 , 591, 2556-2576	3.8	10
82	SMIT1 Modifies KCNQ Channel Function and Pharmacology by Physical Interaction with the Pore. <i>Biophysical Journal</i> , 2017 , 113, 613-626	2.9	17
81	Remote ischemic preconditioning differentially attenuates post-ischemic cardiac arrhythmia in streptozotocin-induced diabetic versus nondiabetic rats. <i>Cardiovascular Diabetology</i> , 2017 , 16, 57	8.7	14
80	α Subunits Functionally Differentiate Human Kv4.3 Potassium Channel Splice Variants. <i>Frontiers in Physiology</i> , 2017 , 8, 66	4.6	6
79	β Subunits Control the Effects of Human Kv4.3 Potassium Channel Phosphorylation. <i>Frontiers in Physiology</i> , 2017 , 8, 646	4.6	1
78	Kcne4 Deletion Sex-Dependently Alters Vascular Reactivity. <i>Journal of Vascular Research</i> , 2016 , 53, 138-148	14.8	22
77	Channel-transporter complexes: an emerging theme in cell signaling. <i>Biochemical Journal</i> , 2016 , 473, 3759-3763	3.8	2

76	Novel exon 1 protein-coding regions N-terminally extend human KCNE3 and KCNE4. <i>FASEB Journal</i> , 2016 , 30, 2959-69	0.9	12
75	Kcne4 deletion sex- and age-specifically impairs cardiac repolarization in mice. <i>FASEB Journal</i> , 2016 , 30, 360-9	0.9	18
74	KCNE1 and KCNE3: The yin and yang of voltage-gated K(+) channel regulation. <i>Gene</i> , 2016 , 576, 1-13	3.8	50
73	Remote Liver Ischemic Preconditioning Protects against Sudden Cardiac Death via an ERK/GSK-3Edependent Mechanism. <i>PLoS ONE</i> , 2016 , 11, e0165123	3.7	19
72	Kcne2 deletion causes early-onset nonalcoholic fatty liver disease via iron deficiency anemia. <i>Scientific Reports</i> , 2016 , 6, 23118	4.9	10
71	Regulation of human cardiac potassium channels by full-length KCNE3 and KCNE4. <i>Scientific Reports</i> , 2016 , 6, 38412	4.9	4
70	Kcne2 deletion attenuates acute post-ischaemia/reperfusion myocardial infarction. <i>Cardiovascular Research</i> , 2016 , 110, 227-37	9.9	22
69	KCNE4 and KCNE5: K(+) channel regulation and cardiac arrhythmogenesis. <i>Gene</i> , 2016 , 593, 249-60	3.8	25
68	The KCNE2 K+ channel regulatory subunit: Ubiquitous influence, complex pathobiology. <i>Gene</i> , 2015 , 569, 162-72	3.8	36
67	Kcne2 deletion promotes atherosclerosis and diet-dependent sudden death. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 87, 148-51	5.8	16
66	Pharmacogenetic diversification by alternative translation initiation: background channels to the fore: Commentary on Kisselbach et al., Br J Pharmacol 171: 5182-5194. <i>British Journal of Pharmacology</i> , 2015 , 172, 4591-4593	8.6	
65	Ion channel-transporter interactions. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015 , 51, 257-67	8.7	24
64	Biology of the KCNQ1 Potassium Channel. <i>New Journal of Science</i> , 2014 , 2014, 1-26		66
63	Arrhythmogenic KCNE gene variants: current knowledge and future challenges. <i>Frontiers in Genetics</i> , 2014 , 5, 3	4.5	20
62	KCNQ1, KCNE2, and Na+-coupled solute transporters form reciprocally regulating complexes that affect neuronal excitability. <i>Science Signaling</i> , 2014 , 7, ra22	8.8	52
61	Kcne2 deletion creates a multisystem syndrome predisposing to sudden cardiac death. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 33-42		33
60	Kcne3 deletion initiates extracardiac arrhythmogenesis in mice. <i>FASEB Journal</i> , 2014 , 28, 935-45	0.9	16
59	Filamin A promotes dynamin-dependent internalization of hyperpolarization-activated cyclic nucleotide-gated type 1 (HCN1) channels and restricts Ih in hippocampal neurons. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5889-903	5.4	19

58	Emulsified isoflurane postconditioning produces cardioprotection against myocardial ischemia-reperfusion injury in rats. <i>Journal of Physiological Sciences</i> , 2013 , 63, 251-61	2.3	21
57	KCNE genetics and pharmacogenomics in cardiac arrhythmias: much ado about nothing?. <i>Expert Review of Clinical Pharmacology</i> , 2013 , 6, 49-60	3.8	18
56	Antiarrhythmic Drugs 2013 , 426-444		0
55	NHE isoform switching and KChIP2 upregulation in aging porcine atria. <i>PLoS ONE</i> , 2013 , 8, e82951	3.7	1
54	Transcriptomic analysis reveals atrial KCNE1 down-regulation following lung lobectomy. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 350-3	5.8	12
53	The KCNQ1-KCNE2 K ⁺ channel is required for adequate thyroid I ⁻ uptake. <i>FASEB Journal</i> , 2012 , 26, 3252-9	4.9	42
52	Interaction between soluble and membrane-embedded potassium channel peptides monitored by Fourier transform infrared spectroscopy. <i>PLoS ONE</i> , 2012 , 7, e49070	3.7	3
51	Effects of electrical and structural remodeling on atrial fibrillation maintenance: a simulation study. <i>PLoS Computational Biology</i> , 2012 , 8, e1002390	5	64
50	KCNE Regulation of K(+) Channel Trafficking - a Sisyphean Task?. <i>Frontiers in Physiology</i> , 2012 , 3, 231	4.6	26
49	KCNE2 and the K (+) channel: the tail wagging the dog. <i>Channels</i> , 2012 , 6, 1-10	3	30
48	Targeted deletion of Kcne2 impairs HCN channel function in mouse thalamocortical circuits. <i>PLoS ONE</i> , 2012 , 7, e42756	3.7	20
47	Protein kinase C downregulates I(Ks) by stimulating KCNQ1-KCNE1 potassium channel endocytosis. <i>Heart Rhythm</i> , 2011 , 8, 1641-7	6.7	40
46	KCNE1 and KCNE2 provide a checkpoint governing voltage-gated potassium channel β -subunit composition. <i>Biophysical Journal</i> , 2011 , 101, 1364-75	2.9	23
45	KCNE1 and KCNE2 inhibit forward trafficking of homomeric N-type voltage-gated potassium channels. <i>Biophysical Journal</i> , 2011 , 101, 1354-63	2.9	34
44	KCNE2 forms potassium channels with KCNA3 and KCNQ1 in the choroid plexus epithelium. <i>FASEB Journal</i> , 2011 , 25, 4264-73	0.9	39
43	Genetic dissection reveals unexpected influence of beta subunits on KCNQ1 K ⁺ channel polarized trafficking in vivo. <i>FASEB Journal</i> , 2011 , 25, 727-36	0.9	27
42	A shared mechanism for lipid- and beta-subunit-coordinated stabilization of the activated K ⁺ channel voltage sensor. <i>FASEB Journal</i> , 2010 , 24, 1518-24	0.9	16
41	Emerging concepts in the pharmacogenomics of arrhythmias: ion channel trafficking. <i>Expert Review of Cardiovascular Therapy</i> , 2010 , 8, 1161-73	2.5	11

40	Cardiac arrhythmia and thyroid dysfunction: a novel genetic link. <i>International Journal of Biochemistry and Cell Biology</i> , 2010 , 42, 1767-70	5.6	17
39	Targeted deletion of Kcne2 causes gastritis cystica profunda and gastric neoplasia. <i>PLoS ONE</i> , 2010 , 5, e11451	3.7	55
38	MinK-dependent internalization of the IKs potassium channel. <i>Cardiovascular Research</i> , 2009 , 82, 430-8	9.9	36
37	Dynamical mechanism for subcellular alternans in cardiac myocytes. <i>Circulation Research</i> , 2009 , 105, 335-42	13.7	51
36	Regulation of the Kv2.1 potassium channel by MinK and MiRP1. <i>Journal of Membrane Biology</i> , 2009 , 228, 1-14	2.3	43
35	Kcne2 deletion uncovers its crucial role in thyroid hormone biosynthesis. <i>Nature Medicine</i> , 2009 , 15, 1186-94	9.3	102
34	Human cardiovascular progenitor cells develop from a KDR+ embryonic-stem-cell-derived population. <i>Nature</i> , 2008 , 453, 524-8	50.4	1142
33	Voltage-dependent C-type inactivation in a constitutively open K+ channel. <i>Biophysical Journal</i> , 2008 , 95, 2759-78	2.9	17
32	Cardioprotective effect of histamine H3-receptor activation: pivotal role of G beta gamma-dependent inhibition of voltage-operated Ca2+ channels. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 326, 871-8	4.7	20
31	Pharmacogenetics of drug-induced arrhythmias. <i>Expert Review of Clinical Pharmacology</i> , 2008 , 1, 93-104	3.8	3
30	Targeted deletion of kcne2 impairs ventricular repolarization via disruption of I(K,slow1) and I(to,f). <i>FASEB Journal</i> , 2008 , 22, 3648-60	0.9	92
29	A KCNE2 mutation in a patient with cardiac arrhythmia induced by auditory stimuli and serum electrolyte imbalance. <i>Cardiovascular Research</i> , 2008 , 77, 98-106	9.9	29
28	Does hERG Coassemble with a β Subunit? Evidence for Roles of MinK and MiRP1. <i>Novartis Foundation Symposium</i> , 2008 , 100-117		12
27	Impact of ancillary subunits on ventricular repolarization. <i>Journal of Electrocardiology</i> , 2007 , 40, S42-6	1.4	40
26	The MiRP2-Kv3.4 potassium channel: muscling in on Alzheimer's disease. <i>Molecular Pharmacology</i> , 2007 , 72, 499-501	4.3	10
25	The role of S4 charges in voltage-dependent and voltage-independent KCNQ1 potassium channel complexes. <i>Journal of General Physiology</i> , 2007 , 129, 121-33	3.4	85
24	Pharmacogenetics and cardiac ion channels. <i>Vascular Pharmacology</i> , 2006 , 44, 90-106	5.9	23
23	Molecular mechanisms of cardiac voltage-gated potassium channelopathies. <i>Current Pharmaceutical Design</i> , 2006 , 12, 3631-44	3.3	19

22	The impact of ancillary subunits on small-molecule interactions with voltage-gated potassium channels. <i>Current Pharmaceutical Design</i> , 2006 , 12, 2285-302	3.3	28
21	1,4-Diazabicyclo[2.2.2]octane derivatives: a novel class of voltage-gated potassium channel blockers. <i>Molecular Pharmacology</i> , 2006 , 69, 718-26	4.3	9
20	Phosphorylation and protonation of neighboring MiRP2 sites: function and pathophysiology of MiRP2-Kv3.4 potassium channels in periodic paralysis. <i>FASEB Journal</i> , 2006 , 20, 293-301	0.9	35
19	The KCNE2 potassium channel ancillary subunit is essential for gastric acid secretion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 23740-7	5.4	123
18	Endogenous KCNE subunits govern Kv2.1 K ⁺ channel activation kinetics in <i>Xenopus</i> oocyte studies. <i>Biophysical Journal</i> , 2006 , 90, 1223-31	2.9	23
17	Interaction of KCNE subunits with the KCNQ1 K ⁺ channel pore. <i>Journal of Physiology</i> , 2006 , 570, 455-67	3.9	86
16	Impairment of hyperpolarization-activated, cyclic nucleotide-gated channel function by the intravenous general anesthetic propofol. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 315, 517-25	4.7	43
15	Does hERG coassemble with a beta subunit? Evidence for roles of MinK and MiRP1. <i>Novartis Foundation Symposium</i> , 2005 , 266, 100-12; discussion 112-7, 155-8		9
14	MinK, MiRP1, and MiRP2 diversify Kv3.1 and Kv3.2 potassium channel gating. <i>Journal of Biological Chemistry</i> , 2004 , 279, 7884-92	5.4	53
13	The MinK-related peptides. <i>Neuropharmacology</i> , 2004 , 47, 787-821	5.5	224
12	Pharmacogenetic considerations in diseases of cardiac ion channels. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003 , 307, 831-8	4.7	37
11	MinK-related peptide 2 modulates Kv2.1 and Kv3.1 potassium channels in mammalian brain. <i>Journal of Neuroscience</i> , 2003 , 23, 8077-91	6.6	77
10	Activation of mitochondrial ATP-sensitive potassium channels increases cell viability against rotenone-induced cell death. <i>Journal of Neurochemistry</i> , 2003 , 84, 1193-200	6	47
9	RNA interference reveals that endogenous <i>Xenopus</i> MinK-related peptides govern mammalian K ⁺ channel function in oocyte expression studies. <i>Journal of Biological Chemistry</i> , 2003 , 278, 11739-45	5.4	59
8	Disease-associated mutations in KCNE potassium channel subunits (MiRPs) reveal promiscuous disruption of multiple currents and conservation of mechanism. <i>FASEB Journal</i> , 2002 , 16, 390-400	0.9	79
7	Do all voltage-gated potassium channels use MiRPs?. <i>Circulation Research</i> , 2001 , 88, 981-3	15.7	43
6	MiRP2 forms potassium channels in skeletal muscle with Kv3.4 and is associated with periodic paralysis. <i>Cell</i> , 2001 , 104, 217-31	56.2	264
5	MiRP1 forms IKr potassium channels with HERG and is associated with cardiac arrhythmia. <i>Cell</i> , 1999 , 97, 175-87	56.2	1173

4	Conformational changes in a mammalian voltage-dependent potassium channel inactivation peptide. <i>Biochemistry</i> , 1998 , 37, 1640-5	3.2	12
3	A superfamily of small potassium channel subunits: form and function of the MinK-related peptides (MiRPs). <i>Quarterly Reviews of Biophysics</i> , 1998 , 31, 357-98	7	102
2	Synthetic putative transmembrane region of minimal potassium channel protein (minK) adopts an alpha-helical conformation in phospholipid membranes. <i>Biochemical Journal</i> , 1997 , 325 (Pt 2), 475-9	3.8	21
1	Intergenerational Stress Transmission is Associated with Brain Metabotranscriptome Remodeling and Mitochondrial Dysfunction		1